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Center for Homeland Defense and Security (CHDS)

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A Maritime Domain Awareness (MDA) Framework for Seamlessly Sharing Data from Multiple Security Domains via a Service Oriented Architecture —

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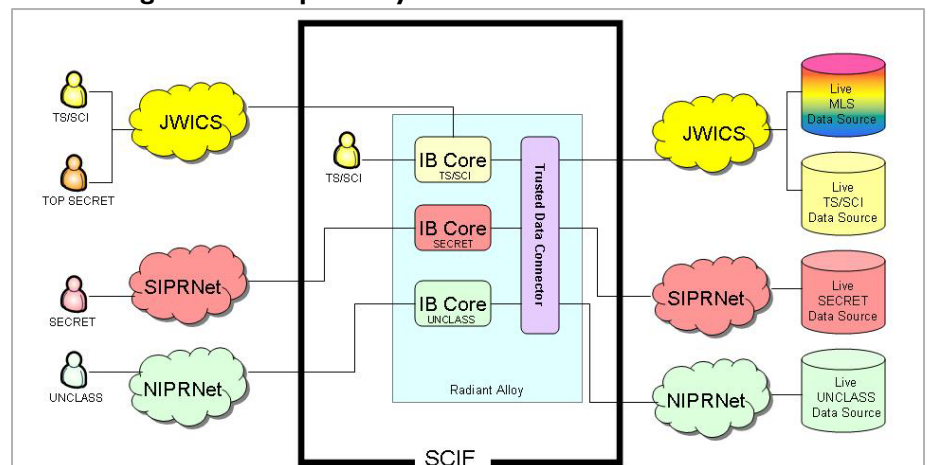
In a speech delivered on January 20, 2002, President Bush stated a goal for development of a comprehensive MDA program, "The heart of the Maritime Domain Awareness program is accurate information, intelligence, surveillance, and reconnaissance of all vessels, cargo, and people extending well beyond our traditional maritime boundaries." The MDA community must find a way to combine, integrate, and facilitate access to maritime domain related data from numerous security domains and sources, in addition to providing access to this data on a need-to-share basis amongst government and non-government entities.

The MDA research group at the Naval Postgraduate School (NPS) has partnered with the Navy TENCAP Program and defense-related R&D organizations to develop Radiant Alloy, a system (see Figure 1) that enables the development of a comprehensive MDA picture through the seamless integration and sharing of data across multiple security domains.

Under the direction of Professor Bret Michael, CDR Mike Schumann and MAJ Randy Arvay are conducting research to provide the evidence necessary to certify and accredit Radiant Alloy for operation at the highest level of assurance. This research provides a foundation for a software engineering process to develop complex, enterprise-level, MLS systems based on SOA.

"The heart of the Maritime Domain Awareness program is accurate information, intelligence, surveillance, and reconnaissance of all vessels, cargo, and people extending well beyond our traditional maritime boundaries." - President George W. Bush, 20 Jan. 2002.

Figure 1—Proposed System Architecture



Calendar of Events

- Maritime Threats & Challenges Conference (Mar. 11-14) NMIC
- MDSR (Mar. 26, Wed.) Monthly Meeting, NPS ME Aud. 1200-1255
- 6th Annual Maritime Homeland Security Summit (Mar. 31– Apr., 3) Charleston, SC
- Red Cell Briefings (Apr. 4) NPS, ME Auditorium 0800-1200
- Ship Tracking Conference (Apr. 9) - ONI-NRO
- Maritime Homeland Security-Maritime Homeland Defense War Game at Naval War College (Apr. 22-25)

The LIBRARIAN'S CORNER—Coast Guard Tests Fingerprinting at Borders [USA Today article March 3, 2008]- ***continued on page 2***



MDSR Red Cell Briefings at NPS - Maj Vida Beard, USAF, and Maj Brian McCullough, USAF

Specially selected and screened students from the Naval Postgraduate School (NPS) and Monterey Institute of International Studies (MIIS) were tasked to characterize vulnerabilities associated with the California Port System and to develop detailed concepts of operations (CONOPS) to exploit its vulnerabilities.



San Francisco Bay

Three teams of approximately 10 students are aiding the security interests of the State of California by the supporting California Office of Homeland Security's (OHS) Garden 2009 Homeland Security exercise. Phase I of the NPS project focused on using open source information to

"We will be unveiling two months of work from an extremely talented group, demonstrating the initial planning process and activities for an attack on a California port by a terrorist cell. The amount of information available via open source is eye opening." Maj Brian McCullough, USAF

find specific vulnerabilities with California ports.

Major Vida Beard and Major Brian McCullough, both from the National Security Affairs Department in SIGS currently lead two teams comprised of joint students from a cross-section NPS and MIIS. The teams are scheduled to brief Phase I results to NPS Faculty on 4 April 2008 at 0800 in the ME Auditorium. The findings of the teams will then be presented to California OHS Stakeholders on 11 April 2008.

The LIBRARIAN'S CORNER— Greta Marlatt, gmarlatt@nps.edu

- U.S. Coast Guard FY 2008 Posture Statement
<http://www.uscg.mil/comdt/DOCS/LOW.RES.CG%20FY09%20Posture%20Statement.FINAL.Jan29.pdf>
- USCG Budget Request FY2009
<http://www.uscg.mil/comdt/DOCS/USCG%20FY09%20Congressional%20Budget%20Submission%201-25-08.pdf>
- ADM Allen's remarks at the National Press Club on the State of the Coast Guard [audio file]
http://cgvi.uscg.mil/media/main.php?q2_itemId=220656
- The 2007 State of the Coast Guard speech is available at
<http://www.uscg.mil/comdt/speeches/socg2007.asp>
- Coast Guard Small Boats Program – Response Boat-Medium (RB-M) Acquisition --
http://www.piersystem.com/posted/786/RB_M_factsheet_7_Mar_08.194678.pdf
- Maritime Security: Coast Guard Inspections Identify and Correct Facility Deficiencies, but More Analysis Needed of Program's Staffing, Practices, and Data [GAO report – GAO-08-12] --
<http://www.gao.gov/new.items/d0812.pdf>
- Coast Guard Tests Fingerprinting at Borders [USA Today article March 3, 2008] --
http://www.usatoday.com/news/nation/2008-03-10-Coastguard_N.htm